

TABLE 3.—*Late seismological reports. (Instrumental.)*

Date.	Character.	Phase.	Time.	Per. iod. T.	Amplitude.		Dis- tance.	Remarks.
					A <sub>E</sub>	A <sub>N</sub>		

Massachusetts. Cambridge. Harvard University Seismographic Station.  
J. B. Woodworth.

Lat., 42° 22' 36" N.; long., 71° 06' 59" W. Elevation, 5.4 meters. Foundation: Glacial sand over clay.

Instruments: Two Bosch-Omori 100 kg. horizontal pendulums (mechanical registration).

$$\text{Instrumental constants.} \quad \begin{matrix} V & T_0 & \epsilon:1 \\ \text{E} & 80 & 23 & 0 \\ \text{N} & 50 & 25 & 4:1 \end{matrix}$$

1915. June 22		O.	H. m. s.	Sec.	$\mu$	$\mu$	Km.	L indistinct.
			3 24 22				6,790	
	eP?		3 34 40					
	S.		3 42 58	6				
	L.		3 43 42	10				
	F?		3 50 48					
23	O.		4 00 21				4,110	O from eL-S deciphered in light of published data in this REVIEW, June, 1915, p. 289-294. Origin in southern California. Local observers give time 4:00.
	eP <sub>N</sub> ?		4 06 28					
	S.		4 13 45	6				
	eL		4 17 31	{ 10				
			4 18 08					
	F.		4 54 00					
23	O.		4 58 34				3,850	Second shock in southern California. Reported at 5:58. Vd. loc. cit. E-W component gives different but more doubtful readings. Short pre-phases.
	eS?		5 11 20					
	eL		5 14 31					
	M.		5 14 38					
	F.		5 35 00					
27	O?		15 36 10				3,525?	
	L.		15 51 16					
	F.		16 22 00					
July 8	O.		22 30 48					
	L.		23 08 41	15				
	L.		23 12 27	28				
	L.		23 14 45	24				
	F.		23 25 56					
22	O?		4 06 08				7,140?	Readings doubtful.
	eP <sub>N</sub>		4 16 44					
	S.		4 25 20					
	S.		4 25 38					
	eL		4 30 02					
	L.		4 32 52					
	F.		4 46 00					
25	O?		20 47 26				7,400?	oP uncertain. L illegible on N-S.
	S?		21 08 56	7				
	L.		21 18 12	23				
	F.		21 49 00					
29	L.		10 55 58	20				Origin in Pacific re- gion. Not registered at Barce- lona or Heidelberg.
	L.		10 59 46	15				
	F.		11 04 22					
31	O.		1 31 28				8,200	Aleutians off Kam- chatka, near λ 168° E., φ 53° N.
	P <sub>R</sub>		1 42 53					
	P <sub>R</sub>		1 45 48					
	P <sub>R</sub>		1 47 20					
	P <sub>R</sub>		1 52 28					
	S.		1 52 28					
	S.		1 52 40					
	S.		1 58 26					
	eL		2 03 02	60				
	L.		2 03 56					
	L.		2 10 10	22				
	L.		2 19 54	14				
	F.		4 21 00					

Date.	Character.	Phase.	Time.	Per. iod. T.	Amplitude.		Dis- tance.	Remarks.
					A <sub>E</sub>	A <sub>N</sub>		

## Massachusetts. Cambridge. Harvard University—Continued.

1915. Aug. 3		O.....	H. m. s.	Sec.	$\mu$	$\mu$	Km.	
		e.....	13 01 27				14,960	
		e.....	13 26 13					
		e.....	13 31 39					
		e.....	14 10 42					
		L.....	14 16 04	22-15				
		LRI.....	15 06 10	20				
		F.....	15 47 00					
6		O.....	13 12 03				9,000	eP in micro- seisms.
		eP?.....	13 23 25					
		S.....	13 35 00					
		SL <sub>N</sub> .....	13 55 18	20				
		L.....	14 01 53	24-22				
		F.....	14 55 00					
7		O.....	15 04 16				7,000?	
		C.....	15 31 09					
		L.....	15 39 27	20				
		L.....	15 46 16	16				
19		F.....	16 07 00					
Sept. 6		O.....	17 20 38				10,300?	A few seismic waves at about 1h.
		e.....	17 53 39					
		L.....	18 16 55					
		L.....	18 22 15	15				
		F.....	19 22 00					
7		O.....	1 20 30				8,580	Destructive earthquake in Guatemala and Salvador. Stylus ran off the drum several times during the maxima.
		IP <sub>E</sub> .....	1 27 19	2				
		F <sub>N</sub> .....	1 27 21	2				
		L.....	1 27 51					
		PR.....	1 27 56					
		I.....	1 28 33					
		IS <sub>N</sub> .....	1 32 41					
		LS <sub>E</sub> .....	1 33 54					
		EL.....	1 34 23	26				
		ME.....	1 35 54					
		EL <sub>N</sub> .....	1 37 01					
		ME.....	1 38 07					
		M <sub>N</sub> .....	1 38 35					
		M <sub>E</sub> .....	1 39 42					
		M <sub>E</sub> .....	1 40 01					
		M <sub>N</sub> .....	1 40 53					
		M <sub>E</sub> .....	1 41 03					
		M <sub>E</sub> .....	1 42 58					
		M <sub>N</sub> .....	1 43 20					
		M <sub>E</sub> .....	1 44 05					
		C <sub>N</sub> .....	1 44 21					
		C <sub>E</sub> .....	1 45 03					
		M <sub>E</sub> .....	1 45 22					
		M <sub>E</sub> .....	1 46 11					
		C <sub>E</sub> .....	1 47 14					
		L <sub>N</sub> <sub>E</sub> .....	1 50 02					
		F <sub>N</sub> .....	2 35 03	12-14				

O = time at origin.

SEISMOLOGICAL DISPATCHES.<sup>1</sup>Am. S. S. *Algiers*, Oct. 15, 1915.

Ship's time, 2 a. m.; N. 28° 29'; W. 92° 45'. Felt a terrific shock in this position which woke everybody on board. Lasted for a couple of minutes. (U. S. Hyd. Office.)

Panama, Oct. 22, 1915.

Slight earthquake at Aquadulce, 40 miles SW. of Panama. No damage of importance. Shock not felt in Canal Zone. (Assoc. Press.) Asheville, N. C., Oct. 29, 1915.

Two distinct shocks were felt here at 12:35 a. m. The shocks came about two minutes apart and lasted a few seconds each. No damage reported. (Assoc. Press; Intern. news serv.).

<sup>1</sup> Reported by the organization indicated and collected by the seismological station at Georgetown University, Washington, D. C.